

Sheldon Ross Simulation

Simulation A Course in Simulation Simulation Knowledge-Based Simulation Handbook of Monte Carlo Methods Decision Sciences Numerical Methods in Finance Control and Dynamic Systems V49: Manufacturing and Automation Systems: Techniques and Technologies Supporting the Transfer of Simulation Technology Fundamentals of Performance Evaluation of Computer and Telecommunication Systems Artificial Intelligence and Simulation ACM Transactions on Modeling and Computer Simulation 1987 Winter Simulation Conference Proceedings AI Applied to Simulation Proceedings of the ... Winter Simulation Conference Modelling and Simulation Methodology Fault-Tolerant Systems 1971 Winter Simulation Conference Index to Simulation Literature, 1976-1981 Expert Systems Sheldon M. Ross Sheldon M. Ross Paul A. Fishwick Dirk P. Kroese Raghu Nandan Sengupta Paolo Brandimarte C.T. Leonides James Randall Kipps Mohammed S. Obaidat Troy Henson Arne Thesen E. J. H. Kerckhoffs Maurice S. Elzas Israel Koren Per A. Holst Philip Klahr

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the 5th edition of ross s simulation continues to introduce aspiring and practicing actuaries engineers computer scientists and others to the practical aspects of constructing computerized simulation studies to analyze and interpret real phenomena readers learn to apply results of these analyses to problems in a wide variety of fields to

obtain effective accurate solutions and make predictions about future outcomes this latest edition features all new material on variance reduction including control variables and their use in estimating the expected return at blackjack and their relation to regression analysis additionally the 5th edition expands on markov chain monte carlo methods and offers unique information on the alias method for generating discrete random variables by explaining how a computer can be used to generate random numbers and how to use these random numbers to generate the behavior of a stochastic model over time ross s simulation 5th edition presents the statistics needed to analyze simulated data as well as that needed for validating the simulation model additional material on variance reduction including control variables and their use in estimating the expected return at blackjack and their relation to regression analysis additional material and examples on markov chain monte carlo methods unique material on the alias method for generating discrete random variables additional material on generating multivariate normal vectors

mathematics of computing probability and statistics

knowledge based simulation methodology and application represents a recent compilation of research material that reviews fundamental concepts of simulation methodology and knowledge based simulation applications knowledge based simulation represents a new and exciting bridge area linking the fields of computer simulation and artificial intelligence this book will appeal to both theorists and practitioners who require simulation to solve complex problems a primary attraction of the book is its emphasis on both methodology and applications in this way the reader can explore new methods for encoding knowledge intensive information into a simulation model and new applications that utilize these methods

a comprehensive overview of monte carlo simulation that explores the latest topics techniques and real world applications more and more of today s numerical problems found in engineering and finance are solved through monte carlo methods the heightened popularity of these methods and their continuing development makes it important for researchers to have a comprehensive understanding of the monte carlo approach handbook of monte carlo methods provides the theory algorithms and applications that helps provide a thorough understanding of the emerging dynamics of this rapidly growing field the authors begin with a discussion of fundamentals such as how to generate random numbers on a computer subsequent chapters discuss key monte carlo topics and methods including random variable and stochastic process generation markov chain monte carlo featuring key algorithms such as the metropolis hastings method the gibbs sampler and hit and run discrete event simulation

techniques for the statistical analysis of simulation data including the delta method steady state estimation and kernel density estimation variance reduction including importance sampling latin hypercube sampling and conditional monte carlo estimation of derivatives and sensitivity analysis advanced topics including cross entropy rare events kernel density estimation quasi monte carlo particle systems and randomized optimization the presented theoretical concepts are illustrated with worked examples that use matlab a related site houses the matlab code allowing readers to work hands on with the material and also features the author's own lecture notes on monte carlo methods detailed appendices provide background material on probability theory stochastic processes and mathematical statistics as well as the key optimization concepts and techniques that are relevant to monte carlo simulation handbook of monte carlo methods is an excellent reference for applied statisticians and practitioners working in the fields of engineering and finance who use or would like to learn how to use monte carlo in their research it is also a suitable supplement for courses on monte carlo methods and computational statistics at the upper undergraduate and graduate levels

this handbook is an endeavour to cover many current relevant and essential topics related to decision sciences in a scientific manner using this handbook graduate students researchers as well as practitioners from engineering statistics sociology economics etc will find a new and refreshing paradigm shift as to how these topics can be put to use beneficially starting from the basics to advanced concepts authors hope to make the readers well aware of the different theoretical and practical ideas which are the focus of study in decision sciences nowadays it includes an excellent bibliography reference journal list information about a variety of datasets illustrated pseudo codes and discussion of future trends in research covering topics ranging from optimization networks and games multi objective optimization inventory theory statistical methods artificial neural networks times series analysis simulation modeling decision support system data envelopment analysis queueing theory etc this reference book is an attempt to make this area more meaningful for varied readers noteworthy features of this handbook are in depth coverage of different topics solved practical examples unique datasets for a variety of examples in the areas of decision sciences in depth analysis of problems through colored charts 3d diagrams and discussions about software

balanced coverage of the methodology and theory of numerical methods in finance numerical methods in finance bridges the gap between financial theory and computational practice while helping students and practitioners exploit matlab for financial applications paolo brandimarte covers the basics of finance and numerical analysis and

provides background material that suits the needs of students from both financial engineering and economics perspectives classical numerical analysis methods optimization including less familiar topics such as stochastic and integer programming simulation including low discrepancy sequences and partial differential equations are covered in detail extensive illustrative examples of the application of all of these methodologies are also provided the text is primarily focused on matlab based application but also includes descriptions of other readily available toolboxes that are relevant to finance helpful appendices on the basics of matlab and probability theory round out this balanced coverage accessible for students yet still a useful reference for practitioners numerical methods in finance offers an expert introduction to powerful tools in finance

control and dynamic systems advances in theory and applications volume 49 manufacturing and automation systems techniques and technologies part 5 of 5 discusses advances in techniques and technologies in manufacturing and automation systems this volume first provides insights on some limitations in machine functions such as computational processes it then describes fundamental techniques in manufacturing and automation systems such as neural network techniques techniques used in the agricultural industry modeling and simulation knowledge based simulation environment techniques detection of faults computer assisted tomography and finite element modeling and sensor integration this book will provide a uniquely significant reference for practising engineers looking for a comprehensive treatment of techniques and technologies in manufacturing and automation system covers many advanced topics provides a uniquely significant reference for practising engineers looking for a comprehensive treatment of techniques and technologies in manufacturing and automation system

the principal hurdle in transferring new ideas and techniques from the research arena into real world department of defense applications comes from conflicts in the programming language requirements of the two groups involved simulation researchers and military analysts this report proposes the development of a common base programming system for military simulation seras system for exploration research and applications in simulation the seras programming system is not a new simulation programming language but a prototyping tool primarily targeted at simulation researchers this report summarizes efforts in developing a plan for supporting the transfer of simulation technology and outlines a preliminary design of seras it presents fundamental concepts in simulation and simulation programming outlines concepts relevant to simulation from artificial intelligence and object oriented programming surveys conventional and experimental simulation programming languages and reviews current perceptions of military simulation at rand and elsewhere finally the report outlines a preliminary design of

the seras programming system and discusses a plan for the development of seras

the only singular all encompassing textbook on state of the art technical performance evaluation fundamentals of performance evaluation of computer and telecommunication systems uniquely presents all techniques of performance evaluation of computers systems communication networks and telecommunications in a balanced manner written by the renowned professor mohammad s obaidat and his coauthor professor noureddine boudriga it is also the only resource to treat computer and telecommunication systems as inseparable issues the authors explain the basic concepts of performance evaluation applications performance evaluation metrics workload types benchmarking and characterization of workload this is followed by a review of the basics of probability theory and then the main techniques for performance evaluation namely measurement simulation and analytic modeling with case studies and examples contains the practical and applicable knowledge necessary for a successful performance evaluation in a balanced approach reviews measurement tools benchmark programs design of experiments traffic models basics of queueing theory and operational and mean value analysis covers the techniques for validation and verification of simulation as well as random number generation random variate generation and testing with examples features numerous examples and case studies as well as exercises and problems for use as homework or programming assignments fundamentals of performance evaluation of computer and telecommunication systems is an ideal textbook for graduate students in computer science electrical engineering computer engineering and information sciences technology and systems it is also an excellent reference for practicing engineers and scientists

these papers are grouped into five coherent sections the first section sets the basis for the rest of the book by addressing fundamental issues the second section is devoted to specialized computer environments that make modelling and simulation easier to perform correctly while the third section reflects the impact of rule based methodologies originated in the ai field on the world of modelling and simulation section four stands in a class of its own as it is based on a novel methodology that in itself is modelled on a biological process providing promising inroads into the world of adaptive and self learning methods the last section describes various applications of the principles to generalised problems of modelling and design

fault tolerant systems second edition is the first book on fault tolerance design utilizing a systems approach to both hardware and software no other text takes this approach or offers the comprehensive and up to date treatment that koren and krishna provide the book comprehensively covers the design of fault tolerant hardware

and software use of fault tolerance techniques to improve manufacturing yields and design and analysis of networks incorporating case studies that highlight more than ten different computer systems with fault tolerance techniques implemented in their design the book includes critical material on methods to protect against threats to encryption subsystems used for security purposes the text s updated content will help students and practitioners in electrical and computer engineering and computer science learn how to design reliable computing systems and how to analyze fault tolerant computing systems delivers the first book on fault tolerance design with a systems approach offers comprehensive coverage of both hardware and software fault tolerance as well as information and time redundancy features fully updated content plus new chapters on failure mechanisms and fault tolerance in cyber physical systems provides a complete ancillary package including an on line solutions manual for instructors and powerpoint slides

this volume collects the most recent papers on artificial intelligence ai and expert systems written at the rand corporation rand s leadership in the field of ai started with the seminal work of newell shaw and simon some thirty years ago and continues with recent work in expert systems and knowledge based simulation the first chapter in this volume provides a brief historical perspective of rand s ai activity from its early days in the 1950s to its current efforts special attention is given to rand s research during the past decade

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